

Meeting Description: Michigan Geographic Framework Users Meeting

Date: June 7, 2001

Time: 10:00 a.m.

Location: George W. Romney Building, 10th Floor, Michigan Information Center, Conference Room

I. Approval of May Meeting Minutes

II. Geographic Framework Program

A. Polygon Build / Act 51 / Seaming Update

Rob Surber, Michigan Information Center (MIC), distributed a current status map. Phase 2 is complete. The Act 51 is done and the polygon build is done for the Phase 3 portion. Seaming is being finished on the Wayne/Oakland County line and should be complete in another week or so. It's coming along well – there are 5 people working on Wayne County from 5 a.m. until 10 p.m. and through the weekend. Some are working on other lines as well, Washtenaw County is half done. When Oakland County is complete, MIC will split into 4 section and will send to Michigan State Industries (MSI). Will call Carol Woodman, MSI, when MIC is doing done with the final touches so that MSI can prepare for it.

Bill Enslin, MSU Center for Remote Sensing and GIS, stated that MSU got a complete polygon build update from MIC, merge them, and are now attempting to put into SDE. Line work is fine. They only built cities, counties, and Minor Civil Divisions (MCDs) – assembled based on codes in line work. There were 17 problems statewide, 2 of which were MSU's problems. There were 15 errors in 9 counties and they were coding errors. When they displayed county file and Cheboygan County was not there, it became real obvious. The problem had to do with the bridge.

Rob Surber, MIC, asked Everett Root, MIC, if what Bill Enslin, MSU, is working on is the same as the final rounds of checks that Everett has been doing on the polygons. Everett is going through a final check and matching all the census data.

Bill Enslin, MSU, stated that they would fix the 17 errors so that MSU can begin work on.

Rob Surber, MIC, asked Everett Root to advise Bill Enslin, MSU, of other changes. The Wayne/Washtenaw was started 2 days ago and is half done. A staff person is coming in at 5 a.m. The Wayne/Monroe is mostly river and seaming is quicker. Majority is going to be finishing Wayne/Oakland and Wayne/Macomb. The staff person working on Washtenaw/Wayne will work on Macomb line next.

B. 2K TIGER Integration: Tracts and Block Groups

Rob Surber, MIC, reported that the 2K TIGER integration, which is to be laid on top of existing Phase 3 work, is complete except for the Wayne County 2000 polygons. MIC plans to have a final check when seaming is done. Everything has been run through standard check and Everett Root, MIC, does a final statewide check.

Ann VanSlembrouck, SEMCOG, asked if all tracts and block groups are on except for Wayne County?

Rob Surber, MIC responded yes that they are all on. A complete AML has been written for creating all cartography output and works on product that has gone through quality control. MIC is now doing mapping of 2000 TIGER blocks and tracts for all counties except for Wayne County.

C. Repositioning Update

Rob Surber, MIC, reported that a few counties have been finished. There is a shift on how MIC is approaching the repositioning. There has been testing of the variety of information. Some staff are testing 'all features', others are testing 'all transaction features' (including trails, logging roads, etc), and others are testing 'named roads' (represents all physical reference (PR)

roads and private roads). And recently MIC has been working with Michigan Department of Natural Resources (MDNR) and Michigan Department of Environmental Quality (MDEQ) for develop a statewide plan for hydro. Waiting for specific directions on hydro standards and trails standards. MIC will hold on non-PR and hydro features at this point.

Jeroen Wagendorp, Allegan County, added that said their Geographic Information Systems (GIS) department tried to do work with the hydro. Could work with the big rivers, but some times can't see 1-foot pixels where the streams are, even when leaves off there is a canopy over top.

Rob Surber, MIC, responded that MIC is also finding that and have been flagging those areas. They are not guessing. Color infrared (IR) works better than black and white pan. MIC plans to turn around a complete new version of repositioned framework for all PR roads by the end of the calendar year. At the current rate, 2-3 quarter quads (QQ) per day per person are complete. MIC will do more specific testing on this rate. It is a known quantity – will not be editing, except for minor adjustments on trunkline. Working to create a table by QQ and the length of PR roads per QQ and zero in on rates. Some QQ are sparse, some are very dense, some measure the curves of roads, and some are grided. Trying to get measure of that and are hopeful that they can get a good statistic to gage progress monthly. Because of the hiring freeze within the State of Michigan, MIC is pinched for staff. Any staff that has available time will be trained to work on this project. Pushing for completion by the end of December to get a new statewide version. MIC is creating accuracy measurements for the methodology. Have been working on Clinton County, Bath Township, Round Lake Road. They are collecting different measurements from global positioning system (GPS) drive lines, MDOT photo logs, and calibrated measuring devices. MIC is working on to determine how accurate position work is, both from position and distance. Preliminary work shows that MIC is about +/- 6-7 feet from GPS drive lines. MIC needs more information about the groundwork to know what that means.

Jeroen Wagendorp, Allegan County, asked if it was worth the hassle.

Rob Surber, MIC, responded that this is one of the issues that they need to think about.

Everett Root, MIC, added that MIC repositioned framework first.

Rob Surber, MIC, stated that MIC was hoping to get +/- 20 feet because that is the width of a road.

Jeroen Wagendorp, Allegan County, asked if MIC is using 1-meter ortho's?

Everett Root, MIC, responded that they are.

Rob Surber, MIC, stated that MIC would have a very detailed analysis report. This is a methodological report and will also do an internal control among staff. Any variations among staff would be monitored. Plan to use the ortho's and use the GPS to give a measure.

Jeroen Wagendorp, Allegan County, asked if there is a study measuring labor input and whether a guy using ortho photos is quicker the guy using a GPS.

Rob Surber, MIC, stated that there is additional clean-up work to the GPS drivelines to be done after the GPS has been done. Asked Joyce Newell, Michigan Department of Transportation (MDOT), if GIS team has looked at this.

Joyce Newell, MDOT, responded that to her knowledge, they have not. MDOT is looking at combining the GPS function with other work (painting lines on roads, etc.).

Rob Surber, MIC, added that the MDOT GIS team, since they continue to drive roads, is looking at a process to collect linear and point data to do in-the-field conflation of the existing PR based lines to the data. It would be possible to do post-interpretation for difficult areas. They are working with Caliper and ESRI to find solutions. Want to be able to do this one time and do it well.

Bill Enslin, MSU, asked what would be the official version and how would it be referred to.

Rob Surber, MIC, responded that Version 2, with new added roads and maintenance, would be next year. This current file would probably Version 1.

Everett Root, MIC, added that MIC would not be doing maintenance while doing this.

Rob Surber, MIC, stated that MIC would do maintenance only on trunklines. Because only doing PR roads, do not have to do detailed feature annotations because this work is limited to road features. Are drawing a lasso around polygon areas and would go back after first of year and correct when doing Act 51 and new roads. Will be editing trunkline and also ongoing city boundary updates. These are important features. If MIC has to move a road to where now there is a river, they will move corresponding features around the road. If they move the road and bridges or rivers cross the road, they will smooth out the features as they relate to the road network. This is a limited amount of movement. MIC was spending a lot of time shaping rivers and drains and it takes a long time.

D. Digital Ortho Update

Gary Bilow, Michigan Department of Natural Resources (MDNR), reported that the digital ortho's are coming in as a steady stream. The purchase order for the rest of the state is in process. They hope to have it on the vendor's desk soon. MDNR set GIS priorities for the department and replacement of 1992 digital ortho quads (DOQs), with the exception of the National Forest, came in high on the list. The United States Geographic Service (USGS) is on board for their share of the funding for next year. Going from black and white to color makes a huge difference. The department is looking at other options as far as remote sensing. Don't know the future of the DOQ.

Rob Surber, MIC, commented that when MIC staff begins working on repositioning, will need to work together with MDNR to coordinate schedules to be sure staff is not waiting for ortho's.

Gary Bilow, MDNR, reported that MDNR will have the MrSID version digital ortho quarter quads (DOQQ) available on the spatial data library within the next couple weeks. There are technical details to work out.

Bill Enslin, MSU, added that the DOQs there are private companies that are coming out of the woodwork. Map Quest now has air photos. Air Photo USA flew the Detroit, Grand Rapids, and Lansing areas last fall (September, October 2000) at 3-foot pixel resolution. This can be viewed on airphotousa.com. Soon they will have on-line ordering and pricing. Also Kodak has a City Pics project. They show a 6-inch pixel images, but their samples are more like satellite data. They have coverage ready for Detroit and Ann Arbor areas. They are planning the Grand Rapids area in the future. There will be a number of commercial products coming out and hopefully the competition would drive prices down. There will be restrictions on the use of this photography, but it does provide an alternative.

Rob Surber, MIC, asked if Map Quest super imposes ortho's with their line work to show off their vectors.

Bill Enslin, MSU, responded that there is a tab to press and it gets near the area.

Jeroen Wagendorp, Allegan County, added that GDT is aggressively calling every county in Michigan to see what is available for sale perhaps integrate and enhance the line work on photos. They are aggressive.

Bill Enslin, MSU, added that these are DOQ products rectified. The Air Photo USA set is seamless.

Rob Surber, MIC, stated he is interested in how the general public (not the business public) uses these photos.

Jeroen Wagendorp, Allegan County, commented that it would be worthwhile marketing firm that could say what the public's perception of photos that they may not be familiar with.

Bill Enslin, MSU, added that looking into the future, for example with the tax-reverted land application, and these companies are going to have services where for a set amount of money they will provide a set number of specified images per year. For small area needs, this may be affordable enough to factor into a business plan.

E. NASA Grant Update

Rob Surber, MIC, reported that the state submitted application for the NASA Imagery Program. NASA wants to show how their type of information is being used around the country and how it makes a difference. They received over 200 abstracts and 39 have been selected. And of the 39, 18 will be states. Two hundred was a higher number than they expected. Should know the results within the next day or so.

Bill Enslin, MSU, commented that one of the aspects is the collaboration with the private industry and that brought a lot them out of the woodwork.

Rob Surber, MIC, stated that there is no indication of that. The group in New York that was formed a couple of months ago is not the same group that is reviewing these applications. So prior relationships would not have helped.

Bill Enslin, MSU, asked if Rob knew how many applications from Michigan were submitted.

Rob Surber, MIC, responded that he didn't know.

Gary Bilow, MDNR, commented that the MDNR also submitted a proposal.

Rob Surber, MIC, stated that the state's application did involve academic, state level, county level, and private business.

III. Michigan Department of Natural Resources (MDNR) Projects and Activities

Gary Bilow, MDNR, reported that the MDNR reorganized. The geographic information systems (GIS) shop, resource mapping and aerial photography (RMAP), was in the Real Estate Division (which is now dissolved) and they are now in the Forest, Mineral, and Fire Management Division. The real estate function has gone to the Office of Property Management. Gary's area took on small GIS effort from the old Forest Management and the new forest inventory program, Inventory Forest Monitoring and Assessment Prescription (IFMAP).

Rob Surber, MIC, asked if the GIS activities are under the RMAP section now.

Gary Bilow, MDNR, responded that they are still being organized. They will combine all GIS activities and Gary will also be responsible for contractors.

Rob Surber, MIC, commented that this should mean better coordination.

Bill Enslin, MSU, asked Gary if they would mosaic the DOQs.

Gary Bilow, MDNR, responded the interface now is HTML mapped by quarter quad.

Bill Enslin, MSU, then asked if MIC is going to be doing this.

Rob Surber, MIC, responded that MIC has talked about it.

Bill Enslin, MSU, commented that someone should be doing it. He is not going to start it if somebody else will do it, but for MSU activities it would be helpful.

Everett Root, MIC, stated that hopefully Michigan GeoRef quarter quads will be on a server and could build different mosaics fairly easily.

Rob Surber, MIC, asked how this would align with repositioning.

Everett Root, MIC, responded that MIC is getting all the photos on a server to speed up repositioning. While they are sitting there, somebody else could be creating MrSID mosaics.

Rob Surber, MIC, commented that this something that they should discuss.

Bill Enslin, MSU, added that he thinks that the state needs this.

Steve Miller, Michigan Department of Environmental Quality (MDEQ), agreed that it is not needed in multiple places but is needed.

IV. Michigan Department of Transportation (MDOT) Projects and Activities

Joyce Newell, MDOT, reported that they are working on the control section / physical reference (PR) atlas. This means bringing together several diverse areas of their department that have used control sections in the past to see if they can agree on something. Staff is trying to resolve places of difference. MIC would produce PR atlas maps in Adobe Acrobat files and paper maps.

Rob Surber, MIC, stated that these are all completed except for Wayne County, which got a few corrections and the CD would be cut tomorrow.

Joyce Newell, MDOT, commented that would help MDOT staff become familiar with PR numbers instead of control sections. Michigan State Industries (MSI) is coding to PR points to current and future highway projects. MSI is also coding segmentation for Highway Performance Monitoring System (HPMS) to framework. In the future, they will be looking at trails. The western Upper Peninsula is working on a proposal for federal money to collect trail information and connect it to framework. MDOT's hopes that they will use a global position system (GPS) what they collect. Work will start October 2002. Also hope to coordinate with other departments interested in trails.

Rob Surber, MIC, commented that they just had a meeting with Mike Donovan and Uptran related to this issue.

Joyce Newell, MDOT, responded that this is the same meeting. They are interested in getting some of the information into Transportation Management System (TMS). Trails not a priority at MDOT, but there is some interest particularly if the trail is conducive to bicycle riding.

Rob Surber, MIC, recalled a discussion with MDNR was that MDOT primarily is interested in trails that go somewhere (rail and snowmobile trails) and are not internal loops.

Joyce Newell, MDOT, added that some trails would be paralleling roads. She doesn't know how far the project would go. Hoping to get federal funding for the project. If they get the funding, they would start collecting data in October. Would probably be collecting data for a year. MDOT is finishing a final look at the attribution of the Bay Region and return data to MIC next week. They have finished Grand and have Southwest, University, and Metro to do.

Rob Surber, MIC, added that when the final urban area boundaries are established, the Census Bureau is planning on locking those down a year from now and have a proposed guideline which do expand to include larger areas around the core population center. This information is available on the web for review. MIC is working on developing what it would look like if the standards were carried out. So far they have got through step 3 of 7 steps. Hit a snag in methodology, which the Census Bureau is aware of, and can not go further. MIC has made maps through step 3 of urbanized areas as they are now with old boundaries superimposed. Made PDFs of those areas around the state and provided these to MDOT. If anybody has an interest, contact the MIC and the PDFs will be provided. They are basically cartographic map products that can be printed. Because this is in a test basis, they are in latitude longitude – so maps have a “flattened” look to them.

V. Michigan Department of Environmental Quality (MDEQ) Projects and Activities

Steve Miller, MDEQ, reported that federal regulations require that storm water permits be issued within urban areas, which are expanding significantly. Any jurisdiction within urban areas must apply for and have a permit program. The process gets complicated. Communities may not have been required to have permits under the old regulations, but may be required under the new regulations, which go into effect March 2003. The maps come out next summer, which doesn't give communities a lot of time to get programs developed.

Rob Surber, MIC, added that if MIC finishes the project, will run all the through the process and provide maps.

Steve Miller, MDEQ, commented that MDEQ would give the communities a head-up that they may involved in this. MDEQ is interested in getting the statewide map that Bill Enslin, MSU, is working on. They want to get information out and on ArcIMS other sites. MDEQ has been selected by ESRI to get a Special Achievement in GIS Award. It is a reflection of the cooperation within the state with the MIC and Bill Enslin, MSU. In regards to the National Hydrography Dataset, MDEQ got the forward from Eric Ivanovich, Institute of Fisheries Research, who is interested in pursuing conflation of the National Hydrography Dataset to 1:24,000 scale. There is a lot of interest from many people in terms of reflation. The United State Geological Survey (USGS) is finally proceeding in getting their work done and conflating line work in the Reach file. MDEQ had a meeting and there was a lot of interest, but nobody had time to coordinate and will have to be coordinated. Eric Ivanovich, Institute of Fisheries Research, will be attending a weeklong class (offered by USGS) working with ArcInfo and ArcGIS scripts to automate the repositioning process. The United States Forest Service has been mandated to do this within the national forest areas, USGS has a project along the Menominee River, there is interest in the Rouge Project, and MDEQ has the Macatawa Project. So there is a lot of interest. Steve will pull a group together – looking for names. Will look at the relationship of conflation effort and repositioning hydrography. Steve asked Jeroen Wagendorp, Allegan County, if they tried repositioning hydrography in their county.

Jeroen Wagendorp, Allegan County, responded that they tried when they got early ortho's in they gave it a try. They realized that except for Kalamazoo River it became a very difficult thing to do. With infrared, it may be easier.

Rob Surber, MIC, commented that the large rivers require a centerline. Creation of centerlines would be based on shoreline. This will have to be looked at.

Steve Miller, MDEQ, added that the centerline is critical for network modeling. Rivers are straight forward, but lakes and empoundments different-must decide where the main river comes in, etc.

Jeroen Wagendorp, Allegan County, commented that on their property Mylar the original river cores drawn in prior to the flooding. It is possible to think the water away, can make a good guess of where the centerline could have been in case the damn goes.

Steve Miller, MDEQ, added that there are guidelines set up and the hope is to coordinate them.

Rob Surber, MIC, commented that it is also important to coordinate the watershed work that has been done.

VI. Michigan State Police (MSP) Projects and Activities

Eric Nischan, MSP, reported that approval and funding for consultant, SIC, to get IMS web server and data server talking to each other. Within the next few weeks MSP has a few chances to showcase GIS and the framework. One case is with the foot and mouth disease drill. MSP is in need of data for Michigan farms other than dairy farm.

Everett Root, MIC, commented the Department of Agriculture geocoded farms in northern Michigan where cattle were inspected for TB. So they would have point locations for beef and dairy. Contact Linda Entemann.

Jeroen Wagendorp, Allegan County, commented that the main concern coming out of the European experience is the interaction between farms, the movement of cows, auction of cows, movement of feed, hauling of milk, etc.

Eric Nischan, MSP, added that birds could also spread the disease. This is going to be a smaller scale drill, but they want all the information they can get. The other showcase is a nuclear power plant drills. It was suggested that they bring the governor and staff to a drill.

VII. Michigan State Industries (MSI) Projects and Activities

Carol Woodman, MSI, reported MSI received the physical reference (PR) finder project in April from MDOT and one of the workers developed an AML to expedite the project. They have completed the Superior and Northern Regions, expect for the point fields. They are working on developing an AML for the point fields. Carol will be picking up more regions tomorrow or Monday.

Joyce Newell, MDOT, explained that this work is for a project they do on the roadways. There is an AML within ArcInfo. MDOT would like a copy of the AML to make available on their standalone and internet PR finder.

Carol Woodman, MDOT, added that they received the Highway Performance Monitoring System (HPMS) Project in mid-May. A worker changed a MIC's AML from ArcInfo 8 to ArcMAP and went back to ArcEdit, because it has more features available to write up AMLs. Now they can populate census feature class codes; legal systems; boundaries; and can highlight data transferred to database; and put in comment fields. They also added a measuring tool to measure arcs for over and under tolerance then click button to put a "C" in comment field. This flags the item for further review. MSI has completed 5 counties.

VIII. MIC Projects and Activities

A. Redistricting Project

Rob Surber, MIC, reported that the redistricting project data base work is finished for the governor's office, senate, house, democrats, republicans, and secretary of state for 1992, 1994, 1996, 1998 and 2000 statewide election data. This was integrated to the block 2000 precincts, city, township, county, and with current 1992 house, senate, and congressional district plans. This also includes 1990 and 2000 P.L. data.

B. Detroit Tax Reverted Project

Rob Surber, MIC, reported that the MIC met with the MDNR, Michigan State Housing and Development Authority (MSHDA), and Michigan Department of Management and Budget (MDMB). They are putting finishing touches to a plan as to how to coordinate and how to get properties in the hands of non-profit groups. MIC has been working with Bill Enslin, MSU, to develop ArcIMS applications and a stand-alone for the map image viewer to keep track of who has done what with the properties at any point in time.

C. National Pipeline Mapping

Rob Surber, MIC, reported that the MIC would apply for a grant to centralize a pipeline map and create a clearinghouse for the state. MIC has been in touch with U.S. Department of Transportation. Over the next month MIC will be working on the standard language for the grant application. MIC would be working with other state agencies responsible for the pipeline and the pipeline companies to integrate this information into framework. This will include all major trunklines and processing facilities. Will have more information at next meeting.

Jeroen Wagendorp, Allegan County, reported that his office did random property checks adjacent to gas lines that were put in 1932. They did not know where to start. The right-of-way was not on the parcel base, but the 1999 ortho's clearly showed the gas lines.

Rob Surber, MIC, stated that this is an important data set and one that a lot of state departments are interested in. MIC is working with Department of Management and Budget's (DMB) Chief Information Officer (CIO) to map the main trunks of all telecomm networks. The governor has an initiative to make sure all government units are within 10 miles of telecom

network. There are a lot of holes, but they want to see the transportation network because they want to use the right-of-ways to lay down more fiber. DMB is interested in working with MIC to be sure the data integrates with framework.

IX. MSU Center for Remote Sensing and GIS Projects and Activities

Bill Enslin, MSU, reported brought copies of the Spectrum Newsletter that has an article about the Michigan map image viewer. If want to be added to the mailing list, contact Bill Enslin. It has been officially released. Bill distributed an order form but encouraged people to order on-line. Because of another project being initiated with MIC, MSU is making major revisions to the software. One of the limitations of the software is in the area of thematic mapping where you can color code values in the database. MSU is working on adding into the viewer - which would require an update for those who have already purchased the viewer. With the changes, would be able to assign different colors, fonts, patterns, and symbols. Also incorporating the ability to display ESRI custom fonts – hydro, topography, transportation, etc. This also involved adding a legend. This will take shape pretty quick. It is built, but need to test. This would eventually be downloadable from website. Then can be distributed without charge or put on another machine; there are no restrictions on it. If interested, check out web site: crs.msu.edu/mapimage. The complete Help File for the application is on the web site.

X. County / Local Projects and Activities

Jeroen Wagendorp, Allegan County, reported that they are playing with digital elevation model (DEM) and produced 4-foot contours for entire county. Then tried 2-feet contours and it also worked. Next the will find some survey work and put behind what they are producing and see how far they can push the envelope. When putting the contours over the digital raster graphics (DRG) to be sure that the lay of the land stays the same, it looks very promising. As a first cut for development as an assessment, this could be a useful product. The watershed activity in Allegan County seems to be increasing. An engineering firm from Minnesota is trying to map 100-year flood plan on the Rapid River. The Kalamazoo River's 100-year floor is currently being worked on and there is an initiative by a private group to work on the 100-year floor plan for the Gunn River. Given the interest in hazard mitigation and the grants that we issued by MSP to local / county governments, this is welcome stuff. Jeroen distributed a handout about a Michigan County GIS Conference scheduled for September 13 and 14, 2001 (the information is on the internet at <http://www.micamp.8m.net/>). This is a county service organization to deal with county level GIS. This is a continuation of the IMAGIN efforts. The public is also invited.

Steve Miller, MDEQ, commented that MDEQ has been working with Bill Enslin, MSU, to get the customized map viewer for their Source Water Program to the county health departments along with the framework data. Not sure how this fits in with this group. MDEQ is working with county people but not always with GIS professionals.

Jeroen Wagendorp, Allegan County, stated that 53 out of 83 counties currently have a GIS unit of some sort. It is the association's objective to make GIS affordable statewide. Jeroen suggests that Steve Miller, MDEQ, get their product into the hands of people of the people that need to use it.

Steve Miller, MDEQ, commented that this has been a major effort. MDEQ has had to get county level data into hands of county officials with the pre-viewer. The initiative over next year is to get it in the hands of the upper level people.

Jeroen Wagendorp, Allegan County, added that it would be nice to whittle away at the remaining 30 counties.

Rob Surber, MIC, stated that might consider is the road commission community and their GIS abilities. They are an important group that is out there.

Jeroen Wagendorp, Allegan County, commented that there is an existing dichotomy at the county government – there is the county government and there are the workers. GIS can be used to get people to talk to each other, other than during budget time of the year.

XI. Regional Projects and Activities

Ann VanSlembrouck, SEMCOG, reported that they are still working putting block attributes on the framework. St. Clair County is 65% done and Livingston County is 20%-25% done.

Everett Root, MIC, asked how many new arcs have been added.

Ann VanSlembrouck, SEMCOG, responded that she would bring the figures to the next month. They have been adding more arcs to Livingston County than to St. Clair County. MSU is going to SEMCOG to train on land use update.

Laura Tschirhart, Tri-County Regional Planning Commission, demonstrated their draft version of 1999 land use files for Meridian Township. Still working with HBTD another for road contract. Laura brought a CD to give to MDNR and MSU.

Amy Zuidema, REGIS, reported that they are in charge of conversion efforts. They are at the end of a 2½-year implementation phase. They are now winding down on conversion. Will tie in rest of the communities with property tax data. REGIS is going through a significant change as GIS staff shuffles around. Implementing applications - property tax administration, dispatch and routing phase, collecting one-way street data within counties and tying to centerline, and instant analysis. At the present time, there are more technicians than users.

Jeroen Wagendorp, Allegan County, asked if there would there be an unveiling day.

Amy Zuidema, REGIS, responded that the IMS applications are up and ready. They have to get on line. They are expecting to unveil in August. They are trying to decide how to respond to questions and comments.

XII. Federal Projects and Activities

Nobody in attendance.

XIII. Other Issues

None.

XIV. Next Meeting Date

July 12, 2001, 10 a.m. until 12 p.m., George W. Romney Building, 111 S. Capitol, 10th Floor, Lansing, MI 48933

** If any changes or corrections are to be made to these minutes, please contact the Michigan Information Center at (517) 373-7910